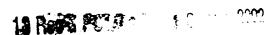
## SEQUENCE LISTING



<110 - Altman, Elliot

<120 - STABILIZED BICACTIVE PEPTIDES AND METHODS CF
IDENTIFICATION, SYNTHESIS AND USE</pre>

<130 > 235.00010101

<1405 US 09,701,947

<141 - 2000-12-05

<150> 60/104,013

<:151:- 1993-10-13</pre>

<150> 60/112,150

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+:210:-1

-:211:- 133

+:212:- DNA

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-:400:- 1

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<211: 25

<212: PFT

<213. Artificial Sequence

<220.

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 having opposite charge ending motif

<220

×221 · SITE

×222 × +6+...21;

+223 - any amino acid

400 - 2

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1
               5
                           10
Xaa Xaa Xaa Xaa Arg Lys Arg Lys
           20
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<2115 14
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{<}223{>} Description of Artificial Sequence: stabilized
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-:400: 3
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 1 5
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+:211> 18
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1
              5
                              10
Arg Lys
<.310 - 5
<211> 10
<212 • PRT
<213 · Homo sapiens
<400> 5
Asp Arg Val Tyr Ile His Fro Fhe His Ile
```

\_

10

1

<210> 6	
<211 \ 20	
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<220:	
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<2118 42	
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<220%	
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<220×	
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R210: 9	
R2115 19	
RESIDENT DNA	
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gttgttgcca ttgctgcag	19

* 113 + 13	
43     43     43     43     43     43     444	
+212% ENA	
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k320:	
<pre>&lt;223&gt; Description of Artificial Sequence: primer</pre>	
Carrier Description of Artificial Sequence, primer	
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<210> 11	
<211> 36	
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ALIS MULLICIAL DEGLETIC	
306	
<220>	
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tactatagat ctatgaccat gattacggat teactg	36
:210:- 12	
<211× 36	
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#213> Artificial Sequence	
+:220>	
R223D Description of Artificial Sequence: primer	
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tacataaago ttggootgoo oggitattat tatitt	36
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×212: DNA	
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< 220 ×	
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+400 > 13	
tatcatctgc agaggaaaca gctatgacca tgattacgga ttcactg	47

×210 × 14	
<211 - 47	
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•	
<220%	
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R2250 Description of Artificial Bequence, primer	
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tacatactog ageaggaaag ettggeetge eeggttatta ttatttt	47
k210 s 15	
k211:- 47	
H212H DNA	
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•	
<220:-	
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ALLESS Description of Artificial Sequence, primer	
106 16	
-:400:- 15	
tateatggat ceaggaaaca getatgacca tgattaegga tteaetg	47
×210× 16	
<211:- 36	
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+2138 Artificial Sequence	
x320x	
+223s Description of Artificial Sequence: primer	
bell bubblipoids of theiritial beganner primer	
::400:- 16	
	2.0
tactatagat ctatggctat cgacgaaaac aaacag	36
+210 + 17	
R211 x 40	
<212 x DNA	
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×220÷	
<223. Description of Artificial Sequence: primer	
· · · · · · · · · · · · · · · · · · ·	
<400 > 17	
atatataago tittaaaaaat ottogitagi tiotgotaog	40
acacacaage ecesaaaaan eeesyttage testgetacg	1 0

+210 + 18	
<211 + 35	
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William Arcifferar Beguenee	
.226.	
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attagtgaat tegeacaate tetgeaataa gtegt	35
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×220×	
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fragment	
J	
:400 ÷ 20	
agatottatg aatto	15
agaccecacy addres	19
(12. 53	
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<b>220</b> 00	
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-400 11	
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ć

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-211 - 15
<210 - DNA
<213 - Artificial Sequence
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4400× 22
                                                              15
agatettatg aatte
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<2125 DNA
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k2205
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     oligonusleotide
k220%
<:221> misc_feature
<2225 (16)..(75)
<223> a, g, c, or t
<400> 23
nnnnnnnnn nnnnntaata agaatteteg aca
                                                              93
<210>-24
<211 × 18
<2125 DNA
<213> Artificial Sequence
-120u
<.23> Description of Artificial Sequence: primer
<400.24</pre>
                                                             18
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<210 > 25
<211 - 20
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; ; ; /;

+212 + ENA +213 + Artificial Sequence	
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<400> 25 teattaatge agetggeaeg	20
<210 > 26 <211 > 20 <212 > DNA <213 > Artificial Sequence	
<pre>&lt;220&gt; &lt;223&gt; Description of Artificial Sequence: primer</pre>	
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<400> 27 tagotoadto attaggoado	20
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<400. 28 gatgacgatg agcgcattgt	20
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+111 + DNA <213 - Artificial Sequence</p> <2230 × <223 - Description of Artificial Sequence: antisense</pre> oligonucleotide <400 < 29 tactatagat ctacggtcac tgaattttgt ggcttgttgg accaactgcc ttagtaatag 60 92 tggaaggotg aaattaataa gaattotoga ca <210> 30 <211: 91 <212> IMA <213> Artificial Sequence <220:-<223> Description of Artificial Sequence: antisense cligonucleotide <4000 30 tactatagat ctacqtggcg ggactcatgg attaagggta gggacgtggg gtttatgggt 60 91 taaaataytt tgataataag aattotogac a <210:- 31 <211:- 92 <212> DNA <213> Artificial Sequence <220:-<223: Description of Artificial Sequence: antisense oligonucleotide <400> 31 tactatagat ctacqaacqq ccqaaccaaa cgaatccggg acccaccagc cgcctaaaca 60 getaccaget gtggtaataa gaattetega ca 92 <210.- 32 <211× 93 <212 - DNA <213> Artificial Sequence <220> <223> Description of Artificial Sequence: antisense pliqunucleptide

-400> 32 tactatagat ctacggaccg tgaagtgatg tgtgcggcaa aacaggaatg gaaggaacga 60 acgocatagg cogogtaata agaattotog aca <210 > 33 <211> 93 <2125 DNA <213> Artificial Sequence :220:-<223> Description of Artificial Sequence: antisense cligonucleotide <4009 33 tactatagat ctacgagggg cgccaactaa ggggggggga aggtatttgt cccgtgcata 60 93 atotogggtg ttgtotaata agaattotog aca <210> 34 <211> 13 <212> FRT <213> Artificial Sequence 3220c <223> Description of Artificial Sequence: stabilized p-eptide Met Val Thr Glu Phe Cys Gly Leu Leu Asp Gln Leu Pro 5 <210-35 -211:- 86 <2012 > EMA <213: Artificial Sequence ×220.4 <223: Description of Artificial Sequence: nucleic acid encoding stabilized peptide ×400> 35 caggaaagat ctatggtcac tgaattttgt ggcttgttgg accaactgcc ttagtaatag 60 86 tggaaggotg aaattaataa gaatto

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-210-36
<211 - 16
<212 - PRT
<213 - Artificial Sequence</pre>
<120%
3223 Description of Artificial Sequence: stabilized
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4400× 36
Met Trp Arg Asp Ser Trp Ile Lys Gly Arg Asp Val Gly Phe Met Gly
                                      10
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4:220:x
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thaaaatagtt tgataataag aatto
<210> 38
<211> 141
<212> DNA
<dl3> Artificial Sequence
4220E
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      encoding stabilized peptide
<400% 33
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egitiggatet aegitaataag aatteteatg tittgaeaget tateategat aagetitaat 120
goggtagttt atdadagtta a
                                                                    141
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. 220
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                                     10
Arg Trp Ile Tyr Val Ile Arg Ile Leu Met Phe Asp Ser Leu Ser Ser
                                  25
             20
Ile Ser Phe Asn Ala Val Val Tyr His Ser
          35
                              40
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<2115 6
4:2125 PRT
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4:220b
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<:400:- 40</pre>
Met Tyr Leu Phe Ile Gly
                 5
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                                                                     75
gtttaataag aattc
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<211> 87
<212> DNA
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x 220 x <223> Description of Artificial Sequence: nucleic acid encoding stabilized peptide <400 - 42 baggaaagat obatgottob attigggggg gactgogggo agaaagcogg atactitact 60 gtgctaccgt caaggtaata agaatto <210 - 43 <211 > 20 <212> PRT <213> Artificial Sequence <:220> <:223> Description of Artificial Sequence: stabilized peptide -:400> 43 Met Leu Leu Phe Gly Gly Asp Cys Gly Lys Ala Gly Tyr Phe Thr Val 1 10 15 Leu Pro Ser Arg 20 <210> 44 <:211> 75 <212> DNA <213> Artificial Sequence -:220:-<223> Description of Artificial Sequence: nucleic acid encoding stabilized peptide <400 · 44 baggaaagat ctatgattgg gggategttg agettegeet gggcaatagt ttgtaataag 60 75 aattotoatg titga P210.- 45 <211> 20 <212 + PRT <213 Artificial Sequence -220. <223 Description of Artificial Sequence: stabilized peptide

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Met Asp Arg Glu Val Met Cys Ala Ala Lys Gln Glu Trp Lys Glu Arg

<400 × 48



10

Thr Fro

1

<2108 49
<2118 87
<2128 DNA
<2138 Artificial Sequence
<2208
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<4008 49
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caggaaagat ctatggaccg tgaagtgatg tgtgcggcaa aacaggaatg gaaggaacga 60 acgccatagg ccgcgtaata agaattc 87

<210> 50
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<220>





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<2200≥
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Met Arg Gly Ala Asn
<210> 53
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atctcgggtg ttgtctaata agaattc
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{st}223{st} Description of Artificial Sequence: N-terminal
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<220>
<221> SITE
<222> (1)
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<220∋
<221 - SITE
<222. (4)
<2233 any amino acid
<400> 54
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1	
010 55	
<210: 55	
×211 × 36	
k212% ENA	
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<400× 55	
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<pre>&lt;223&gt; Description of Artificial Sequence: primer</pre>	
value 2 model person of interference bequestion primer	
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	2.4
tataogtatt dagttgetea datgttettt detgeg	3 6
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<211: 41 <212: DNA <213: Artificial Sequence <220: <223: Description of Artificial Sequence: primer <400: 57	4 1
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<211: 41 <212: DNA <213: Artificial Sequence <220: <223: Description of Artificial Sequence: primer <400: 57 aattcatact atagatetat gaccaaacag gaaaaaaccg c	4.1
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<211: 41 <212: DNA <213: Artificial Sequence <220: <223: Description of Artificial Sequence: primer <400: 57 aattcatact atagatetat gaccaaacag gaaaaaaccg c <210: 53 <211: 42	41
<pre>&lt;211&gt; 41 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; Description of Artificial Sequence: primer  &lt;400&gt; 57 aattoatact atagatetat gaccaaacag gaaaaaaccg c  &lt;210&gt; 58 &lt;211&gt; 42 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence</pre>	41
<211: 41 <212: DNA <213: Artificial Sequence  <220: <223: Description of Artificial Sequence: primer  <400: 57 aattcatact atagatctat gaccaaacag gaaaaaaccg c  <210: 58 <211: 42 <212: DNA	4 1

k400 ⋅ 58 tatataatac atgtcagaat tegaggtttt cacegtcate ac 42 <210> 59 <211 - 96 <212: DNA <213: Artificial Sequence <2200.4 <223> Description of Artificial Sequence: randomized oligonucloetide < 22 0 is <221: misc\_feature <222: (16)..(75) <223: a, g, c, or t <4005-59 nnnnnnnnn nnnnncatag atctgcgtgc tgtgat 96 #210: 60 +:211:-21:212: DNA <213: Artificial Sequence</p> :220:-<223> Description of Artificial Sequence: primer <400: 60 atcacageae geagatetat g 21 <210> 61 ×211 × 36 <212: DNA <213> Artificial Sequence -220: ~223 - Description of Artificial Sequence: randomized oligonucleotide 2220× <221> misc feature

 $\times 222 \times (13 \times 1.115 \times 15 \times 123)$  a, g, c, or t

.400 > 61 tactatgaat tennngaatt etgecaccac tactat 35 <210: €2 .211 - 21 <2125 IMA %213 Artificial Sequence <223> Description of Artificial Sequence: primer <4005 62 itagtagtgg tggcagaatt c 21 <210: 63 <211:- 105 <212: DNA \*213> Artificial Sequence 4:220s #223: Description of Artificial Sequence: randomized oligonucleotide H220H <:221: misc\_feature</pre> <2225 (22)..(81)</pre> 32235 a, g, c, or t -:4005 63 nnnnnnnnn nnnnnnnnn neegeegtaa taagaatteg tacat <210> 64 < 2.11: 2.4 <212: DNA >213> Artificial Sequence ±220 × <223> Description of Artificial Sequence: primer <400> 64 atgtacgaat tottattacg gogg 24





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<211s 90
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<220⇒
<221: mist_feature
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<2235 a, g, c, or t
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<201> misc_feature
<2225 (21)
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<221> misc_feature
<2225 (24)
<2235 a, g, c, or t
4:2200s
<:221: misc_feature</pre>
H2221 (27)
%203% a, g, c, or t
4.22.00a
<221> misc_feature
H222H (30)
\ll 2003 \times a, g, c, or t
<2200×
- 221. misc feature
<222. (33)
>223> a, g, c, or t
320s
<221> miss feature
×222 × (36)
-223 - a, g, c, or t
220 ·
>221 - misc_feature
2222 - 1391
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+223 + a, g, c, or t



```
<2105
<2215 misc_feature
k2025 (42)
<223% a, g, c, or t
4: LL 2 0 :-
<221> misc_feature
k2225 (45)
<1133 a, g, c, or t
<2200×
<:221> misc_feature
<2225 (48)
<2235 a, g, c, or t
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k223: a, g, d, or t
k2205
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-:222. (60)
k223: a, g, c, or t
4220.
<cdll < misc_feature</pre>
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+123 - a, g, c, or t
-:220 ·
<221: misc_feature
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<222: (66)

<223 - a, g, c, or t

<4005 65 tactatagat ctatquanva nyanyanyan yanyanyany anyanyanya nyanyanyan 60





vanvantaat aagaattotg obagbabtat	90
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<pre>&lt;220:- &lt;221&gt; misc_feature &lt;222&gt; (28)(75) &lt;223&gt; a, g, c, or t</pre>	
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<210> 68 <211> 30 <212> DNA <213> Artificial Sequence	
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<400:- 68 atgtacgaat tottattatt tacgtttacg	30
<210% 69 <211% 81	





III INA	
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encoding stabilized peptide	
<400 · €9	
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acadegeegt aataagaatt e	8
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÷220:-	
<pre>&lt;:223: Description of Artificial Sequence: stabilized</pre>	
peptide	
poporae	
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Met Pro Pro Ile Leu Trp Gly Glu Ala Arg Lys Arg Leu Trp Gly Gly	
1 5 10 15	
Asp His Thr Pro Pro	
20	
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<223> Description of Artificial Sequence: nucleic acid encoding stabilized peptide	6(
<223> Description of Artificial Sequence: nucleic acid encoding stabilized peptide  <400 · 71 agatotatgo ogcogoogtt ggatattgtg togggtattg aggtaggggg gcatttgtgg	
<pre>&lt;223&gt; Description of Artificial Sequence: nucleic acid</pre>	
<223> Description of Artificial Sequence: nucleic acid encoding stabilized peptide  <400 · 71 agatotatgo ogcogoogtt ggatattgtg togggtattg aggtaggggg goatttgtgg tgcogoogta ttaagaatto toatgtttga  <210 > 72	
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K220 x
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peptide
<400× 72
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1 5 10 15
Leu Trp Cys Arg Arg Ile Lys Asn Ser His Val
20 25
<2108-73
<2115 81
KB125 DNA
<213> Artificial Sequence
±220»
<pre></pre>
encoding stabilized peptide
chooding convirting popular
<4005 73
agatotatgo ogcoggadaa tooggtootg tgatgaagog gaggtogado aaggggatat 60
cagoogcogt aataagaatt c 81
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<2115 S
<212: PRT
<213: Artificial Sequence
<220b
<pre></pre>
peptide
FoForas
::400::-74
Met Pro Pro Asp Asn Pro Val Leu
1 5
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×21181
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encoding stakilized peptide
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3.1

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